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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/455,662	12/07/1999	STEFANO OLIVIERI	PHN-17.446	5446	
24737	7590 07/14/2004		EXAMINER		
	PHILIPS INTELLECTUAL PROPERTY & STANDARDS			VO, TUNG T	
P.O. BOX 300 BRIARCLIFF	MANOR, NY 10510		ART UNIT	PAPER NUMBER	
	,		2613		
			DATE MAILED: 07/14/2004	. <i>H</i>	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/455,662	OLIVIERI, STEF	ANO			
Office Action Summary	Examiner	Art Unit				
• • • • • • • • • • • • • • • • • • •	Tung T. Vo	2613				
The MAILING DATE of this communication ap	pears on the cover she	eet with the correspondence a	nddress			
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep. If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, by within the statutory minimum will apply and will expire SIX (a) cause the application to become	may a reply be timely filed n of thirty (30) days will be considered tin 6) MONTHS from the mailing date of this ome ABANDONED (35 U.S.C. § 133).	nely. communication.			
Status						
1) Responsive to communication(s) filed on 24 /	May 2004.					
2a) This action is FINAL . 2D) 111	2a) ☐ This action is FINAL . 2b) ☐ This action is non-final. 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
 4) Claim(s) 1-3 is/are pending in the application 4a) Of the above claim(s) is/are withdr 5) Claim(s) is/are allowed. 6) Claim(s) 1-3 is/are rejected. 	awn from consideratio	on.				
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and	or election requireme	ent.				
Application Papers						
 9) The specification is objected to by the Examination 10) The drawing(s) filed on <u>07 December 1999</u> is Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the 	s/are: a) accepted on the drawing(s) be held in the cection is required if the c	abeyance. See 37 CFR 1.85(a Irawing(s) is objected to. See 37). 7 CFR 1.121(d).			
Priority under 35 U.S.C. § 119						
12) △ Acknowledgment is made of a claim for forei a) △ All b) ☐ Some * c) ☐ None of: 1. △ Certified copies of the priority docume 2. ☐ Certified copies of the priority docume 3. ☐ Copies of the certified copies of the p application from the International Burd * See the attached detailed Office action for a light of the points.	ents have been receivents have been receivents have been receiveriority documents haveau (PCT Rule 17.2(a	ed. ed in Application No e been received in this Natio	nal Stage			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB. Paper No(s)/Mail Date	/08) 5) □ N	nterview Summary (PTO-413) aper No(s)/Mail Date lotice of Informal Patent Application	(PTO-152)			

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

2. Claims 1-3 are rejected under 35 U.S.C. 102(e) as being anticipated by Linzer et al. (US 6,108,039).

Re claims 1 and 3, Linzer discloses a device and its method for recursive motion vector estimation comprising:

a) for a current block of a picture divided into a plurality of blocks (col. 1, lines 28-33), and based on motion information generated for the previously-processed if any (col. 2, line 65-col. 3, line 9; see also col. 9, line 46-col. 10, line 16) and if immediately to the left said current block (Top Left to top left, col. 9, lines 51-67), the block being processed by said method in a

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predetermined order (zigzag order, left to right, top to bottom), means (ME0 1/64 of fig. 5) for generating a plurality of candidate vectors from stored vectors (24 of fig. 2, e.g. the motion vectors are stored in the motion estimation processor (24), where the motion estimation is described in the figure 3, 54, 60 of fig. 3);

- b) means (610 of fig. 5) for selecting one of these candidate vectors to generate a selected vector (ME0-MVT is generated by motion vertical field select(610 of fig. 5));
- c) means (Top to top OR Bottom to top SEARCH of fig. 5) for generating a plurality of test vector from the selected vectors (the selected ME0-MVT is generated by ME2 ¼ and Top to top Search to produce ME20-MVT as called a test vector);
- d) means (650 of fig. 5) for select one of the test vectors to generate output vector (a single motion vector ME2-MVT is selected from the test vectors ME20-MVT);
- e) means for storing output vector (20 of fig. 2, e.g. the selected test vector is stored in the buffer (28) with the encoded video data).
- f) Linzer further discloses means (col. 22, lines 5-6) for re-executing the steps above, which is called a recursive motion vector estimation.

Re claim 2, Linzer further discloses adding -1, 0, or +1 to each component (8x8 or 4x4) of the selected vectors into the selecting test vector (col. 10, lines 38-51, searching macroblock start at (0,0) to the right (0, +1), to the left (0, -1), to the top (0, +1), to the bottom (0, -1), see also table 2 in col. 10).

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Response to Arguments

3. Applicant's arguments filed 05/24/04 have been fully considered but they are not persuasive.

The applicant argued that Linzer fails to disclose or suggest at least steps a) and f), and the steps of adding_1, 0 or +1 to each component of the selected vector, pages 4 and 5 of the remark.

The examiner respectfully disagrees with the applicant. It is submitted that Linzer does disclose a) for a current block of a picture divided into a plurality of blocks (col. 1, lines 28-33, note an image is divided into macro-blocks that obtains plurality blocks that contains plurality of pixels), and based on motion information generated for the previously-processed if any (col. 2, line 65-col.3, line 9; see also col. 9, line 46-col. 10, line 16) and if immediately to the left said current block (Top Left to top left, col. 9, lines 51-67), the block being processed by said method in a predetermined order (zigzag order, left to right, top to bottom), means (ME0 1/64 of fig. 5) for generating a plurality of candidate vectors from stored vectors (24 of fig. 2, e.g. the motion vectors are stored in the motion estimation processor (24), where the motion estimation is described in the figure 3, 54, 60 of fig. 3), and f) means (col. 22, lines 5-6) for re-executing the steps above, which is called a recursive motion vector estimation. Liner further discloses the step of adding -1, 0, or +1 to each component (8x8 or 4x4) of the selected vectors into the selecting test vector (col. 10, lines 38-51, searching macroblock start at (0,0) to the right (0, +1), to the left (0, -1), to the top (0, +1), to the bottom (0, -1), see also table 2 in col. 10). In view of the discussion above, Linzer anticipates the claimed features.

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Conclusion

4. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tung T. Vo whose telephone number is (703) 308-5874. The examiner can normally be reached on 6:30 AM - 3:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chris. Kelley can be reached on (703) 305-4856. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DRAMARY PATER

PATENT EXAMINER

Tung T. Vo Primary Examiner Art Unit 2613

T.Vo